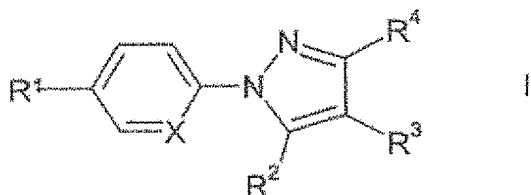


The listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently Amended) A compound of ~~Compounds of~~ the formula I



in which

$R^1$  denotes H, A, Hal,  $(CH_2)_n$ Het,  $(CH_2)_n$ Ar, cycloalkyl having 3 to 7 C atoms,  $CF_3$ ,  $NO_2$ , CN,  $C(NH)NOH$  or  $OCF_3$ ,

$R^2$  denotes  $(CH_2)_n$ Het,  $(CH_2)_n$ Ar, cycloalkyl having 3 to 7 C atoms or  $CF_3$ ,

$R^3, R^4$  denote H,  $(CH_2)_nCO_2R^5$ ,  $(CH_2)_nCOHet$ , CHO,  $(CH_2)_nOR^5$ ,  $(CH_2)_n$ Het,  $(CH_2)_nN(R^5)_2$ ,  $CH=N-OA$ ,  $CH_2CH=N-OA$ ,  $(CH_2)_nNHOA$ ,  $(CH_2)_nN(R^5)Het$ ,  $(CH_2)_nCH=N-Het$ ,  $(CH_2)_nOOOR^5$ ,  $(CH_2)_nCH=N-Het$ ,  $(CH_2)_nOOOR^5$ ,  $(CH_2)_nN(R^5)CH_2CH_2OR^5$ ,  $(CH_2)_nN(R^5)CH_2CH_2OCF_3$ ,  $(CH_2)_nN(R^5)C(R^5)HOOR^5$ ,  $(CH_2)_nN(R^5)C(R^5)HOOR^5$ ,  $(CH_2)_nN(R^5)CH_2COHet$ ,  $(CH_2)_nN(R^5)CH_2Het$ ,  $(CH_2)_nN(R^5)CH_2CH_2Het$ ,  $(CH_2)_nN(R^5)CH_2CH_2N(R^5)CH_2OOOR^5$ ,  $(CH_2)_nN(R^5)CH_2CH_2N(R^5)CH_2OOOR^5$ ,  $(CH_2)_nN(R^5)CH_2CH_2N(R^5)_2$ ,  $CH=CHCOOR^5$ ,  $CH=CHCH_2NR^5Het$ ,  $CH=CHCH_2N(R^5)_2$ ,  $CH=CHCH_2OR^5$  or  $(CH_2)_nN(R^5)Ar$ , where in each case one of the radicals  $R^3$  or  $R^4$  denotes H,

$R^5$  denotes H or A,

A denotes straight-chain or branched alkyl or alkoxy having 1 to 10 C atoms, alkenyl or alkoxyalkyl having 2 to 10 C atoms,

Het denotes a saturated, unsaturated or aromatic mono- or bicyclic heterocyclic or linear or branched organic radical containing one or more heteroatoms which is unsubstituted or mono- or polysubstituted by A and/or Hal,

Ar denotes a phenyl radical which is unsubstituted or mono- or polysubstituted by A and/or Hal,  $OR^5$ ,  $OR^5$ ,  $OOOR^5$ ,  $COOR^5$ ,  $CON(R^5)_2$ , CN,  $NO_2$ ,  $NH_2$ ,  $NHCOR^5$ ,  $CF_3$  or  $SO_2CH_3$ ,

X denotes  $N_2$  or  $[[\bar{5}]]$

Chemical structures representing various substituents (R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup>, R<sup>5</sup>, R<sup>6</sup>, R<sup>7</sup>, R<sup>8</sup>, R<sup>9</sup>, R<sup>10</sup>, R<sup>11</sup>, R<sup>12</sup>, R<sup>13</sup>, R<sup>14</sup>, R<sup>15</sup>, R<sup>16</sup>, R<sup>17</sup>, R<sup>18</sup>, R<sup>19</sup>, R<sup>20</sup>, R<sup>21</sup>, R<sup>22</sup>, R<sup>23</sup>, R<sup>24</sup>, R<sup>25</sup>, R<sup>26</sup>, R<sup>27</sup>, R<sup>28</sup>, R<sup>29</sup>, R<sup>30</sup>, R<sup>31</sup>, R<sup>32</sup>, R<sup>33</sup>, R<sup>34</sup>, R<sup>35</sup>, R<sup>36</sup>, R<sup>37</sup>, R<sup>38</sup>, R<sup>39</sup>, R<sup>40</sup>, R<sup>41</sup>, R<sup>42</sup>, R<sup>43</sup>, R<sup>44</sup>, R<sup>45</sup>, R<sup>46</sup>, R<sup>47</sup>, R<sup>48</sup>, R<sup>49</sup>, R<sup>50</sup>, R<sup>51</sup>, R<sup>52</sup>, R<sup>53</sup>, R<sup>54</sup>, R<sup>55</sup>, R<sup>56</sup>, R<sup>57</sup>, R<sup>58</sup>, R<sup>59</sup>, 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R<sup>121</sup>, R<sup>122</sup>, R<sup>123</sup>, R<sup>124</sup>, R<sup>125</sup>, R<sup>126</sup>, R<sup>127</sup>, R<sup>128</sup>, R<sup>129</sup>, R<sup>130</sup>, R<sup>131</sup>, R<sup>132</sup>, R<sup>133</sup>, R<sup>134</sup>, R<sup>135</sup>, R<sup>136</sup>, R<sup>137</sup>, R<sup>138</sup>, R<sup>139</sup>, R<sup>140</sup>, R<sup>141</sup>, R<sup>142</sup>, R<sup>143</sup>, R<sup>144</sup>, R<sup>145</sup>, R<sup>146</sup>, R<sup>147</sup>, R<sup>148</sup>, R<sup>149</sup>, R<sup>150</sup>, R<sup>151</sup>, R<sup>152</sup>, R<sup>153</sup>, R<sup>154</sup>, R<sup>155</sup>, R<sup>156</sup>, R<sup>157</sup>, R<sup>158</sup>, R<sup>159</sup>, R<sup>160</sup>, R<sup>161</sup>, R<sup>162</sup>, R<sup>163</sup>, R<sup>164</sup>, R<sup>165</sup>, R<sup>166</sup>, R<sup>167</sup>, R<sup>168</sup>, R<sup>169</sup>, R<sup>170</sup>, R<sup>171</sup>, R<sup>172</sup>, R<sup>173</sup>, R<sup>174</sup>, R<sup>175</sup>, R<sup>176</sup>, R<sup>177</sup>, R<sup>178</sup>, R<sup>179</sup>, R<sup>180</sup>, R<sup>181</sup>, R<sup>182</sup>, R<sup>183</sup>, R<sup>184</sup>, R<sup>185</sup>, R<sup>186</sup>, R<sup>187</sup>, R<sup>188</sup>, R<sup>189</sup>, R<sup>190</sup>, R<sup>191</sup>, R<sup>192</sup>, R<sup>193</sup>, R<sup>194</sup>, R<sup>195</sup>, R<sup>196</sup>, R<sup>197</sup>, R<sup>198</sup>, R<sup>199</sup>, R<sup>200</sup>, R<sup>201</sup>, R<sup>202</sup>, R<sup>203</sup>, R<sup>204</sup>, R<sup>205</sup>, R<sup>206</sup>, R<sup>207</sup>, R<sup>208</sup>, R<sup>209</sup>, R<sup>210</sup>, R<sup>211</sup>, R<sup>212</sup>, R<sup>213</sup>, R<sup>214</sup>, R<sup>215</sup>, R<sup>216</sup>, R<sup>217</sup>, R<sup>218</sup>, R<sup>219</sup>, R<sup>220</sup>, R<sup>221</sup>, R<sup>222</sup>, R<sup>223</sup>, R<sup>224</sup>, R<sup>225</sup>, R<sup>226</sup>, R<sup>227</sup>, R<sup>228</sup>, R<sup>229</sup>, R<sup>230</sup>, R<sup>231</sup>, R<sup>232</sup>, R<sup>233</sup>, R<sup>234</sup>, R<sup>235</sup>, R<sup>236</sup>, 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R<sup>295</sup>, R<sup>296</sup>, R<sup>297</sup>, R<sup>298</sup>, R<sup>299</sup>, R<sup>300</sup>, R<sup>301</sup>, R<sup>302</sup>, R<sup>303</sup>, R<sup>304</sup>, R<sup>305</sup>, R<sup>306</sup>, R<sup>307</sup>, R<sup>308</sup>, R<sup>309</sup>, R<sup>310</sup>, R<sup>311</sup>, R<sup>312</sup>, R<sup>313</sup>, R<sup>314</sup>, R<sup>315</sup>, R<sup>316</sup>, R<sup>317</sup>, R<sup>318</sup>, R<sup>319</sup>, R<sup>320</sup>, R<sup>321</sup>, R<sup>322</sup>, R<sup>323</sup>, R<sup>324</sup>, R<sup>325</sup>, R<sup>326</sup>, R<sup>327</sup>, R<sup>328</sup>, R<sup>329</sup>, R<sup>330</sup>, R<sup>331</sup>, R<sup>332</sup>, R<sup>333</sup>, R<sup>334</sup>, R<sup>335</sup>, R<sup>336</sup>, R<sup>337</sup>, R<sup>338</sup>, R<sup>339</sup>, R<sup>340</sup>, R<sup>341</sup>, R<sup>342</sup>, R<sup>343</sup>, R<sup>344</sup>, R<sup>345</sup>, R<sup>346</sup>, R<sup>347</sup>, R<sup>348</sup>, R<sup>349</sup>, R<sup>350</sup>, R<sup>351</sup>, R<sup>352</sup>, 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R<sup>411</sup>, R<sup>412</sup>, R<sup>413</sup>, R<sup>414</sup>, R<sup>415</sup>, R<sup>416</sup>, R<sup>417</sup>, R<sup>418</sup>, R<sup>419</sup>, R

Chemical structures of various heterocyclic compounds are shown, including substituted benzene rings, furans, thiophenes, and pyridines, with substituents such as methoxy, methyl, chlorine, and R groups.

or a salt, solvate, enantiomer, racemate, mixture of enantiomers, or a pharmaceutically

acceptable salt or solvate thereof

~~and salts and solvates, enantiomers, and racemates thereof and other mixtures of the enantiomers, in particular physiologically tolerated salts and solvates thereof.~~

2. (Currently Amended) A compound of ~~Compounds of the~~ formula I according to Claim 1, in which  $R^1$   ~~$R^1$~~  denotes phenyl, 2-, 3- or 4-cyanophenyl, 2-, 3- or 4-fluorophenyl, 2-, 3- or 4-methyl-, -ethyl-, -n-propyl- or -n-butylphenyl, 2,3-, 2,4-, 2,5-, 2,6-, 3,4-, 3,5- or 3,6-difluoro-, -dichloro- or -dicyanophenyl, 3,4,5-trifluorophenyl, 3,4,5-trimethoxy- or -triethoxyphenyl, thiophen-2-yl or thiophen-3-yl.

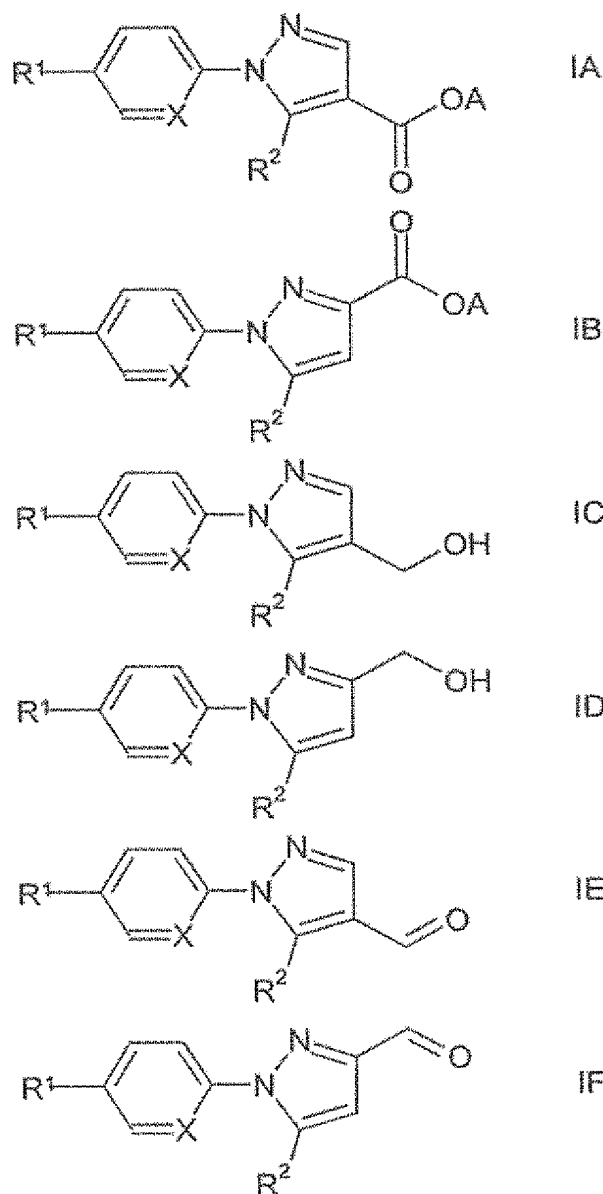
3. (Currently Amended) A compound of ~~Compounds of the~~ formula I according to claim 1, in which  $R^3$  denotes H.

4. (Currently Amended) A compound of ~~Compounds of the~~ formula I according to claim 1, in which  $R^4$  denotes H.

5. (Currently Amended) A compound of ~~Compounds of the~~ formula I according to claim 1, in which  $R^2$  denotes phenyl, 2-, 3- or 4-cyanophenyl, 2-, 3 or 4-fluorophenyl, 2-, 3- or 4-methyl-, -ethyl-, -n-propyl- or -n-butylphenyl, 2,3-, 2,4-, 2,5- or 2,6-difluoro- or -dicyanophenyl, thiophen-2yl or thiophen-3-yl, 2-, 3- or 4-pyridyl, 2-, 4- or 5-oxazolyl, 2-, 4- or 5-thiazolyl, quinolinyl, isoquinolinyl, 2- or 4-pyridazyl, 2-, 4- or 5-pyrimidyl, or 2- or 3-pyrazinyl.

6. (Currently Amended) A compound of ~~Compounds of the~~ formula I according to claim 1, in which X denotes N.

7. (Currently Amended) A compound of formula ~~Compounds of the formulae~~ IA, IB, IC, ID, IE or IF ~~and IF~~.



in which

$R^1$ ,  $R^2$  and X have the meanings indicated in Claim 1

$R^1$  denotes H, A, Hal,  $(CH_2)_n$ Het,  $(CH_2)_n$ Ar, cycloalkyl having 3 to 7 C atoms,  $CF_3$ ,  $NO_2$ , CN,  $C(NH)NOH$  or  $OCF_3$ ,

$R^2$  denotes  $(CH_2)_n$ Het,  $(CH_2)_n$ Ar, cycloalkyl having 3 to 7 C atoms or  $CF_3$ ,

A denotes straight-chain or branched alkyl or alkoxy having 1 to 10 C atoms, alkenyl or alkoxyalkyl having 2 to 10 C atoms,

Het denotes a saturated, unsaturated or aromatic mono- or bicyclic heterocyclic or linear or branched organic radical containing one or more heteroatoms which is unsubstituted or mono- or polysubstituted by A and/or Hal,

Ar denotes a phenyl radical which is unsubstituted or mono- or polysubstituted by A and/or Hal, OR<sup>5</sup>, OOCR<sup>5</sup>, COOR<sup>5</sup>, CON(R<sup>5</sup>)<sub>2</sub>, CN, NO<sub>2</sub>, NH<sub>2</sub>, NHCOR<sup>5</sup>, CF<sub>3</sub> or SO<sub>2</sub>CH<sub>3</sub>.

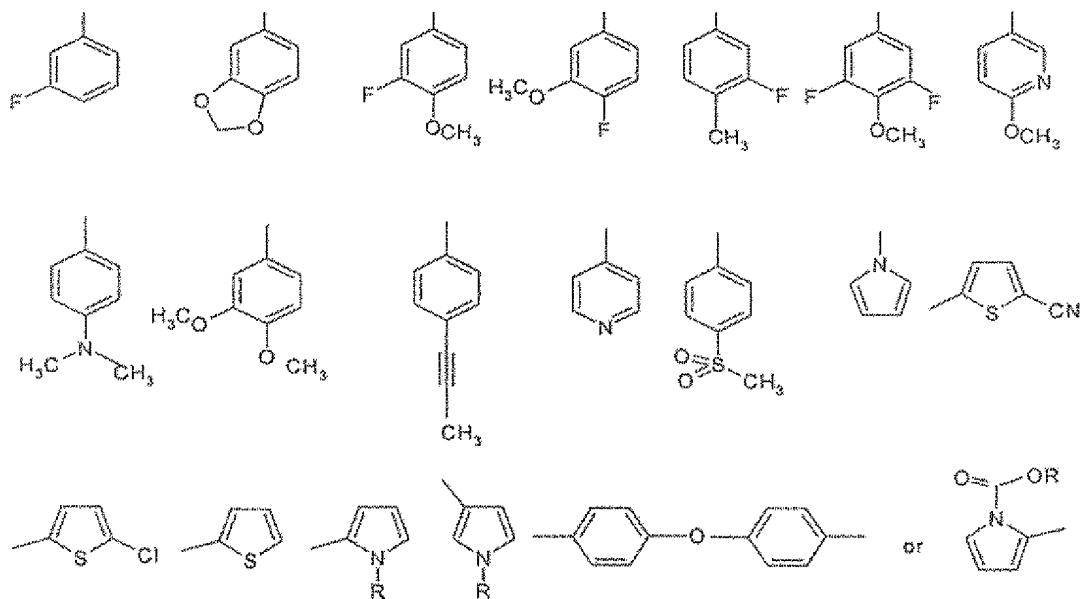
R<sup>5</sup> denotes H or A.

n denotes 0, 1, 2, 3, 4 or 5.

Hal denotes F, Cl, Br or I, and

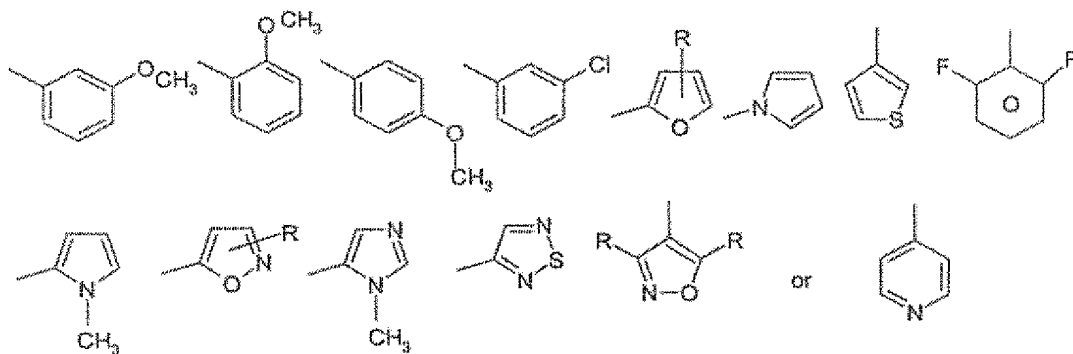
X denotes N, or

in the case where R<sup>1</sup> denotes



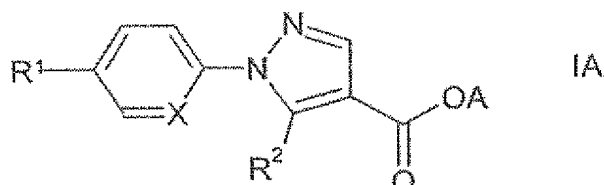
in which R denotes H or an alkyl group having 1 to 6 C atoms,

and/or R<sup>2</sup>

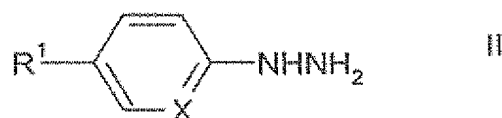


in which R denotes H or an alkyl group having 1 to 6 C atoms,  
alternatively denotes CH<sub>3</sub>,  
or a salt or solvate thereof.

8. (Currently Amended) A process for preparing a compound of  
~~Process for the preparation of compounds of the formula IA according to claim 7~~



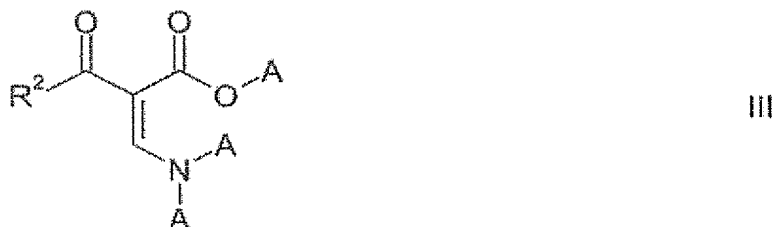
~~in which R¹, R², R³, R⁴, X and A have the meanings indicated in Claim 1, and salts and solvates thereof, which is characterised in that comprising reacting a compound of the formula II~~



or an acid-addition salt salts thereof, in which

R¹ and X have the meanings indicated for the compound of formula IA, in Claim 1, is reacted

with a compound of the formula III

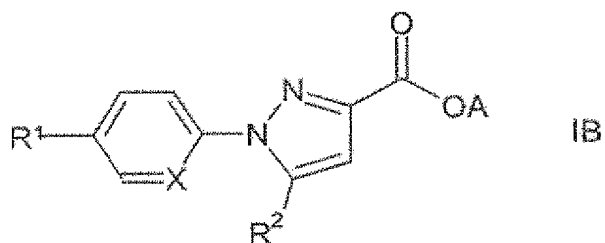


in which

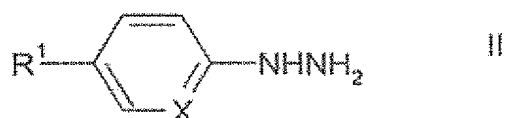
A and R² have the meanings indicated for the compound of formula IA in Claim 1, and/or in that

a basic compound of the formula IA is converted into one of its salts by treatment with an acid.

9. (Currently Amended) A process for preparing a compound of  
Process for the preparation of compounds of the formula IB according to claim 7



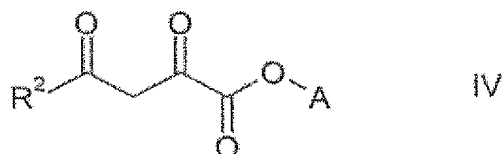
in which  $R^1$ ,  $R^2$ ,  $R^3$ ,  $R^4$ , X and A have the meanings indicated for the compound of  
formula IB, in Claim 1, and salts and solvates thereof, which is characterised in that  
comprising reacting a compound of the formula II



or an acid-addition salt salts thereof, in which

$R^1$  and X have the meanings indicated for the compound of formula IB, in Claim 1, is  
reacted

with a compound of the formula IV



in which

A and  $R^2$  have the meanings indicated for the compound of formula IB in Claim 1,  
and/or in that

a basic compound of the formula IB is converted into one of its salts by treatment with an acid.

10. (Currently Amended) A pharmaceutical composition comprising a compound of Compounds of the formula I according to claim 1 and a pharmaceutically acceptable carrier and physiologically acceptable salts and solvates thereof as medicaments.

11. (Currently Amended) A method Use of the compounds of the formula I according to claim 1, and salts and solvates thereof, for the preparation of a medicament for the treatment or and prophylaxis of a disease diseases which can be influenced by the binding of a compound of the compounds of the formula I to 5 HT receptors, comprising administering to a subject in need thereof an effective amount of a pharmaceutical composition according to claim 10.

12. (Currently Amended) A method for antagonizing a 5-HT receptor, comprising administering to a subject in need thereof an effective amount of a pharmaceutical composition according to claim 10 Use of compounds of the formula I according to claim 1 and/or physiologically acceptable salts and solvates thereof for the preparation of a medicament having a 5-HT receptor antagonistie action.

13. (Currently Amended) A method for antagonizing a 5-HT<sub>2A</sub> receptor, comprising administering to a subject in need thereof an effective amount of a pharmaceutical composition according to claim 10 Use of compounds of the formula I according to claim 1 and/or physiologically acceptable salts and solvates thereof for the preparation of a medicament having a 5-HT<sub>2A</sub> receptor antagonistie action.

14. (Cancelled)

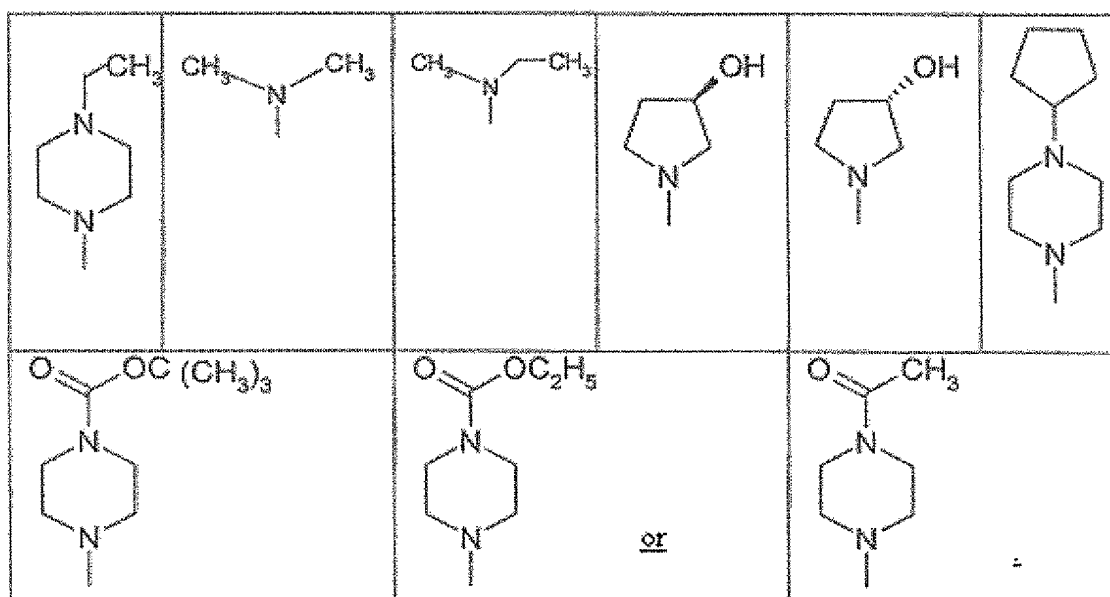
15. (Currently Amended) A process for preparing a pharmaceutical composition according to claim 10, comprising mixing together Process for the preparation of pharmaceutical compositions, characterised in that a compound of the formula I and a pharmaceutically acceptable carrier according to Claim 1 and/or one of its physiologically acceptable salts and/or one of its solvates is converted into a suitable dosage form together with at least one solid, liquid or semi-liquid excipient or adjuvant.

16. (Currently Amended) A method Use of compounds of the formula I

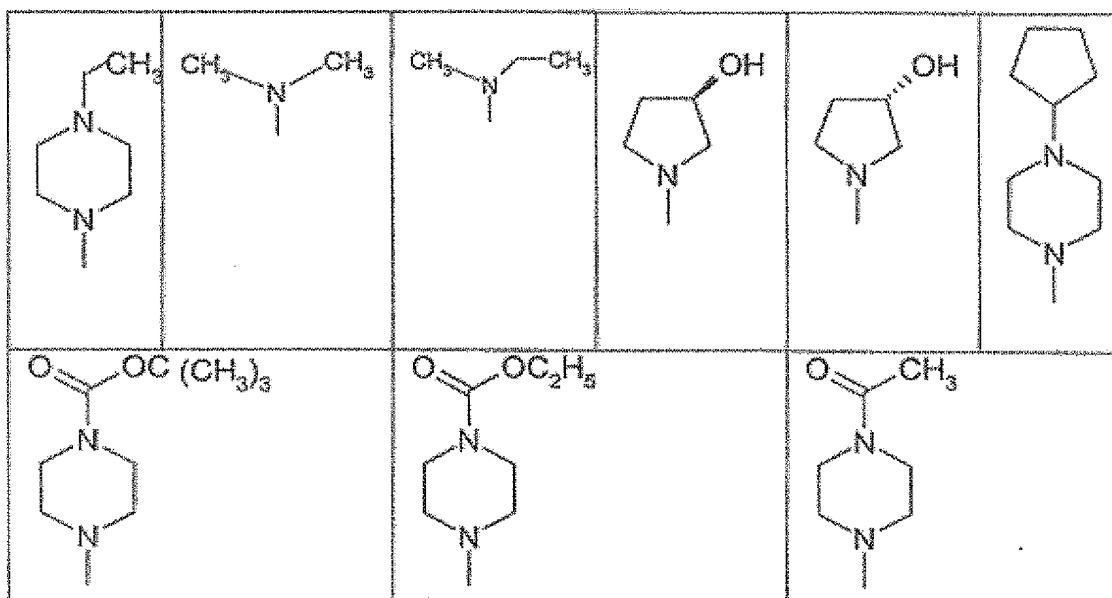


according to claim 1 and/or physiologically acceptable salts or solvates thereof for the preparation of a medicament for the prophylaxis and/or treatment of psychoses, a neurological disorder disorders, amyotrophic lateral sclerosis, eating disorder disorders, such as bulimia, anorexia nervosa, of premenstrual syndrome and/or for positively influencing obsessive-compulsive disorder, comprising administering to a subject in need thereof an effective amount of a pharmaceutical composition according to claim 10 (OCD).

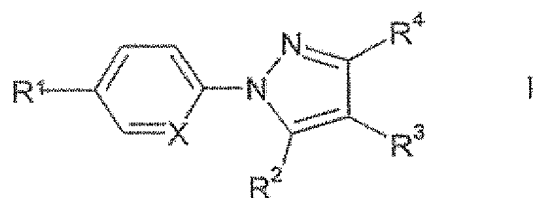
17. (Currently Amended) A compound of claim 1, Compounds of the formula I in which Het is one of the following radicals:



18. (New) A compound of claim 7, in which Het is



19. (New) A compound of formula I according to claim 1

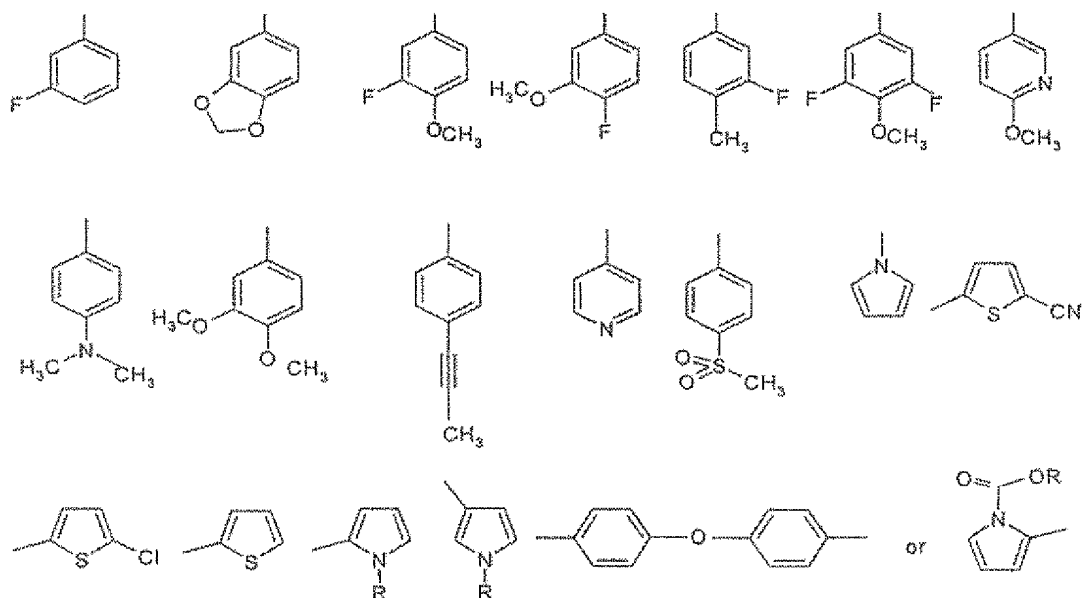


in which

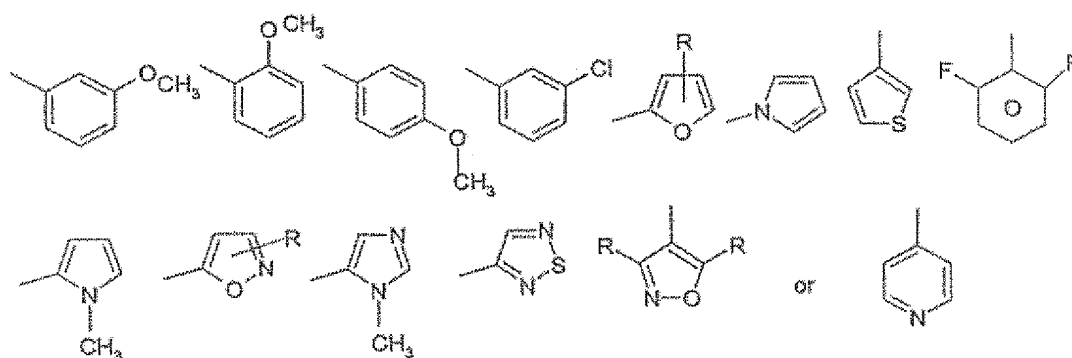
- $R^1$  denotes H, A, Hal,  $(CH_2)_n$ Het,  $(CH_2)_n$ Ar, cycloalkyl having 3 to 7 C atoms,  $CF_3$ ,  $NO_2$ , CN,  $C(NH)NOH$  or  $OCF_3$ ,
- $R^2$  denotes  $(CH_2)_n$ Het,  $(CH_2)_n$ Ar, cycloalkyl having 3 to 7 C atoms or  $CF_3$ ,
- $R^3, R^4$  denote H,  $(CH_2)_nCO_2R^5$ ,  $(CH_2)_nCOHet$ , CHO,  $(CH_2)_nOR^5$ ,  $(CH_2)_n$ Het,  $(CH_2)_nN(R^5)_2$ ,  $CH=N-OA$ ,  $CH_2CH=N-OA$ ,  $(CH_2)_nNHOA$ ,  $(CH_2)_nN(R^5)Het$ ,  $(CH_2)_nCH=N-Het$ ,  $(CH_2)_nOOOR^5$ ,  $(CH_2)_nN(R^5)CH_2CH_2OR^5$ ,  $(CH_2)_nN(R^5)CH_2CH_2OCF_3$ ,  $(CH_2)_nN(R^5)C(R^5)HOOR^5$ ,  $(CH_2)_nN(R^5)CH_2COHet$ ,  $(CH_2)_nN(R^5)CH_2Het$ ,  $(CH_2)_nN(R^5)CH_2CH_2Het$ ,  $(CH_2)_nN(R^5)CH_2CH_2N(R^5)CH_2OOOR^5$ ,  $(CH_2)_nN(R^5)CH_2CH_2N(R^5)_2$ ,  $CH=CHCOOR^5$ ,  $CH=CHCH_2NR^5Het$ ,  $CH=CHCH_2N(R^5)_2$ ,  $CH=CHCH_2OR^5$  or  $(CH_2)_nN(R^5)Ar$ , where in each case one of the radicals  $R^3$  or  $R^4$  denotes H,

$R^5$	denotes H or A,
A	denotes straight-chain or branched alkyl or alkoxy having 1 to 10 C atoms, alkenyl or alkoxyalkyl having 2 to 10 C atoms,
Het	denotes a saturated, unsaturated or aromatic mono- or bicyclic heterocyclic or linear or branched organic radical containing one or more heteroatoms which is unsubstituted or mono- or polysubstituted by A and/or Hal,
Ar	denotes a phenyl radical which is unsubstituted or mono- or polysubstituted by A and/or Hal, $OR^5$ , $OOCR^5$ , $COOR^5$ , $CON(R^5)_2$ , CN, $NO_2$ , $NH_2$ , $NHCOR^5$ , $CF_3$ or $SO_2CH_3$ ,
n	denotes 0, 1, 2, 3, 4 or 5,
Hal	denotes F, Cl, Br or I, and
X	denotes N, or

in the case where  $R^1$  denotes

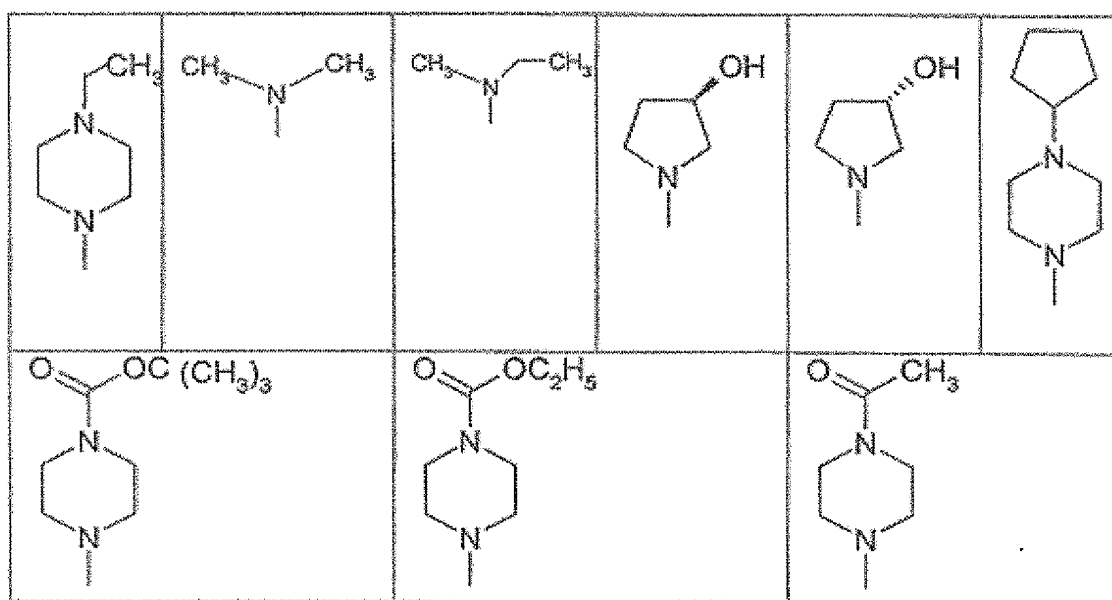


in which R denotes H or an alkyl group having 1 to 6 C atoms,  
and/or  $R^2$

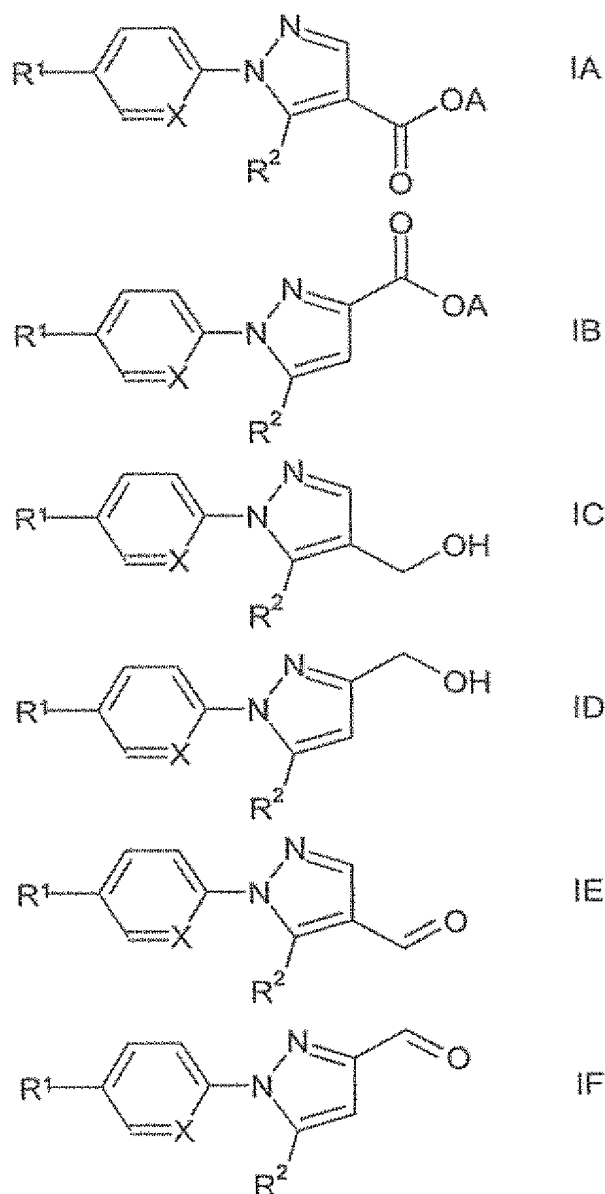


in which R denotes H or an alkyl group having 1 to 6 C atoms,  
alternatively denotes CH,  
or a pharmaceutically acceptable salt thereof.

20. (New) A compound of claim 19, in which Het is



21. (New) A compound of formula IA, IB, IC, ID, IE or IF



in which

- $R^1$  denotes H, A, Hal,  $(CH_2)_n\text{Het}$ ,  $(CH_2)_n\text{Ar}$ , cycloalkyl having 3 to 7 C atoms,  $CF_3$ ,  $NO_2$ , CN,  $C(NH)NOH$  or  $OCF_3$ ,
- $R^2$  denotes  $(CH_2)_n\text{Het}$ ,  $(CH_2)_n\text{Ar}$ , cycloalkyl having 3 to 7 C atoms or  $CF_3$ ,
- A denotes straight-chain or branched alkyl or alkoxy having 1 to 10 C atoms, alkenyl or alkoxyalkyl having 2 to 10 C atoms,
- Het denotes a saturated, unsaturated or aromatic mono- or bicyclic heterocyclic or linear or branched organic radical containing one or more heteroatoms which is unsubstituted or mono- or polysubstituted by A and/or Hal,
- Ar denotes a phenyl radical which is unsubstituted or mono- or

polysubstituted by A and/or Hal,  $OR^5$ ,  $OOCR^5$ ,  $COOR^5$ ,  $CON(R^5)_2$ , CN,  $NO_2$ ,  $NH_2$ ,  $NHCOR^5$ ,  $CF_3$  or  $SO_2CH_3$ ,

$R^5$

denotes H or A,

n

denotes 0, 1, 2, 3, 4 or 5,

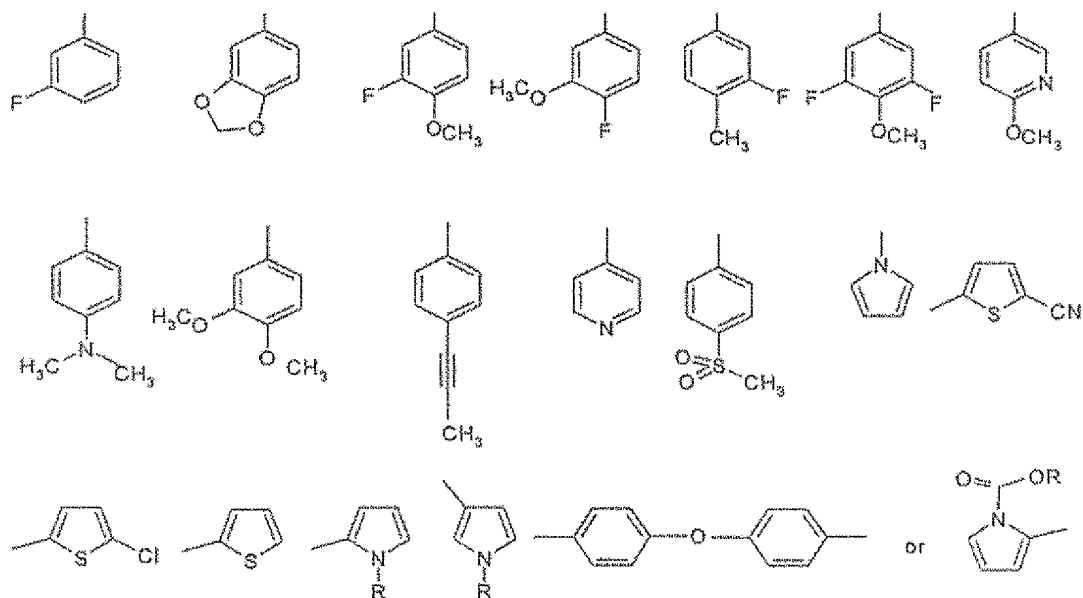
Hal

denotes F, Cl, Br or I, and

X

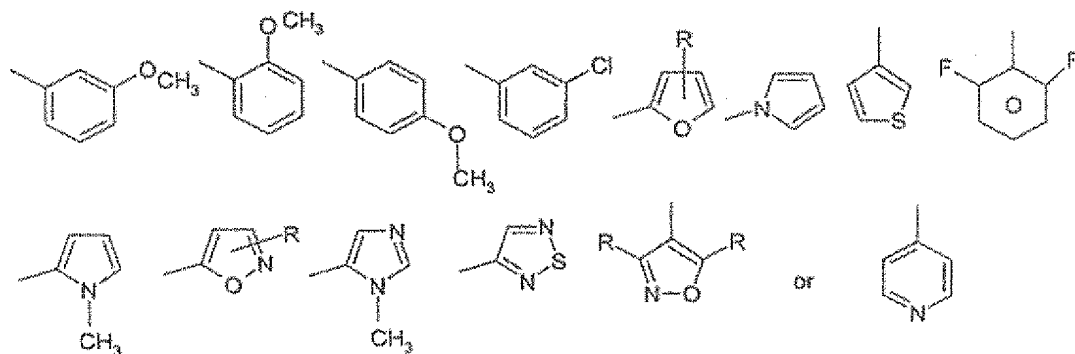
denotes N, or

in the case where  $R^1$  denotes



in which R denotes H or an alkyl group having 1 to 6 C atoms,

and/or  $R^2$



in which R denotes H or an alkyl group having 1 to 6 C atoms,  
alternatively denotes CH,  
or a pharmaceutically acceptable salt thereof.

22. (New) A compound of claim 21, in which Het is

